

POOR LEGIBILITY

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Four Corners Pipe Line Company

5900 Cherry Avenue (90805)
P. O. Box 787 (90801)
Long Beach, California
Telephone 213-428-9000

SFUND RECORDS CTR

88041104

SFUND RECORDS CTR
0639-02429

February 25, 1992

**First Class Mail & Certified Mail,
Return Receipt Requested**

AR2697

**Mr. Tom Dunkelman
U.S. Environmental Protection Agency, Region IX
Mail Stop H-7-1
F5 Hawthorne Street
San Francisco, California 94105**

**Re: Request for Information
Del Amo Site, Los Angeles, California**

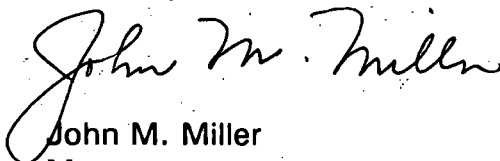
Dear Mr. Dunkelman:

Attached are the responses of Four Corners Pipe Line Company to the questions in the Request for Information dated 22 January 1992 and received 27 January 1992, regarding the Del Amo Site, Los Angeles, California.

This response is being filed by Four Corners Pipe Line Company on its own behalf, and on behalf of its parent company, Atlantic Richfield Company.

If you require additional information, please send your request to me with a copy to Herbert A. Birenbaum, Esquire, 300 Oceangate, Long Beach, California 90802-9341.

Sincerely,



**John M. Miller
Manager
Safety, Health, Environmental Protection**

**DEL AMO SITE
INFORMATION REQUEST**

QUESTIONS

1. Q. Identify all pipelines and product transmission lines owned or operated by your company either currently or at some time in the past within a one-mile radius of the Del Amo site. This should include all pipelines identified on pg. 68 and pg. 69 of the most recent Los Angeles Thomas Brothers map book.
- A. Attachment 1 is a copy of pg. 68 and pg. 69 showing a one-mile radius around the Del Amo site. Line 93 is the only pipeline or product transmission line operated by Four Corners Pipe Line Company in the area.
- Q. For each pipeline identified provide the following information:
 - a. Location of the pipeline (identify verbally and on a map);

In the vicinity of the Del Amo site, Line 93 is identified as follows: Beginning at the Perry Street Junction and Del Amo Boulevard, City of Carson, thence westerly approximately 3.0 miles of 16-inch pipeline to the Crenshaw Junction and lateral connection to Mobil Torrance Refinery and Unocal Torrance Refinery, City of Torrance.
 - b. Size of the pipeline;

Line 93 is a 16-inch diameter pipeline.
 - c. Date of construction of the pipeline;

Line 93 was installed in 1958 (Per Attachments 2 and 3, Atlas sheets pp. 346-17 and 18).
 - d. Type of materials transported through the pipeline (include a list of all materials transported through the pipeline, approximate dates of transport of each material identified);

Line 93 has been and currently is in crude oil service. Approximate dates and shipment rates for the past six years are as follows:

<u>YEAR</u>	<u>RATE (Thousands of Barrels per Day, MBPD)</u>
1991	42
1990	40
1989	44
1988	53
1987	78
1986	64

Crude oil rates ranged from approximately 40 - 70 MBPD from 1978 - 1985. From 1958 - 1978 the line was operated from east to west bringing crude oil from the Aneth, Utah area to the Los Angeles Basin at rates of approximately 40 - 70 MBPD.

- e. Thorough discussion of the pipeline construction;

Attachment 4 provides a detailed pipeline description for Line 93.

- f. Results of all pressure tests conducted on the pipeline to date;

Line 93 was hydrotested when originally constructed; however, no record of the original hydrotest is in possession of Four Corners Pipe Line Company. Line 93 hydrotest records are summarized as follows:

<u>DATE</u>	<u>FROM</u>	<u>TO</u>	<u>PSIG</u>
12/9/77	Perry St.	Crenshaw Blvd.&Del Amo	1045
11/13/81	E.Hynes	Chevron Refinery	1000
6/15/82	Carson Crude	Perry St. Junction	1250
6/16/82	Perry St.	Crenshaw Blvd.	1000
6/21/82	Crenshaw Blvd.	Chevron Refinery	1000
6/21/82	E. Hynes	Perry St. Junction	1425
8/10/82	Crenshaw Blvd. &	Eldorado-69 Ft.	1500
5/24/91	Sta. 54 + 72	Sta. 106 + 28	1000

- g. Indicate whether the pipeline is an interstate or intrastate pipe line.

Line 93 is an interstate pipeline.

- h. Indicate and describe fully whether any other parties have been allowed to lease or otherwise use the pipeline.

Initial ownership of Four Corners Pipe Line Company was divided among six companies in the following percentages: Shell Oil Co., 25 per cent; Standard Oil of California, 25 per cent; Gulf Oil Co.,

20 per cent; Continental Pipe Line Co., 10 per cent; Richfield Oil Co., 10 per cent; and Superior Oil Co., 10 per cent. Shell Pipe Line Co. was original operator of the line. Atlantic Richfield purchased all shares of stock of Four Corners Pipe Line Company in 1976. Since 1976, Four Corners Pipe Line Company has been sole operator of Line 93.

2. Q. Provide a complete discussion of any suspected leaks or discharges that have occurred from any pipelines identified above. In your discussion describe the following:

- a. Cause of leak or discharge;
- b. Date of the leak or discharge;
- c. Types and volumes of material that leaked or were discharged;
- d. Actions taken to stop the leak or discharge;
- e. Actions taken to remediate soil or groundwater contaminated by the leak or discharge.

A. Four Corners Pipe Line Company is not aware of any suspected leaks or discharges.

3. Q. Are you aware of any pipelines, owned or operated by your company, that may have leaked, discharged, or otherwise contributed to soil or groundwater contamination in the vicinity of the Del Amo site. If so, describe fully.

A. No.

4. Q. Provide a detailed discussion of the ability of your company to detect leaks or discharges from the pipelines identified above. Include in your response an estimation of the maximum volume of material that would leak or be discharged from the above identified pipelines without being detected or noticed. Include in your discussion any changes or improvements in your leak detection capabilities during the period of your operation of this pipeline.

A. A combination of methods is used to provide leak detection. Supervisory Control and Data Acquisition-based continuous pressure deviation monitoring of the delivery and receipt points is used to alert the operator in the event of any line release that causes a significant change in the pipeline system pressure profile. The system will also alert the operator of any pressure change while the line is idle. On packed idle lines, very small leaks can cause pressure changes sufficient to alert the operator. Another method balances volumes into and out of the pipeline system over time. This is the best detection method for smaller releases. The line can also be pressured to a predetermined point and left in a

static pressurized condition for periods of one hour or more. This is an effective method for determining if there are weeping valves or small leaks on the system which would cause the pressure to fall over time. Regular pipeline patrol for visual inspection of the right of way is also used.

The above methods have been in use since the late 1970's. Changes that have occurred since then were primarily the result of new connections to the pipeline and changes in field measurement equipment, i.e., installation of meters, etc.

5. Q. Provide a detailed discussion of the ability of your company to detect and quantify leaks or discharges from a particular segment of a pipeline as compared the ability to detect such discharges over a significant length of pipeline.

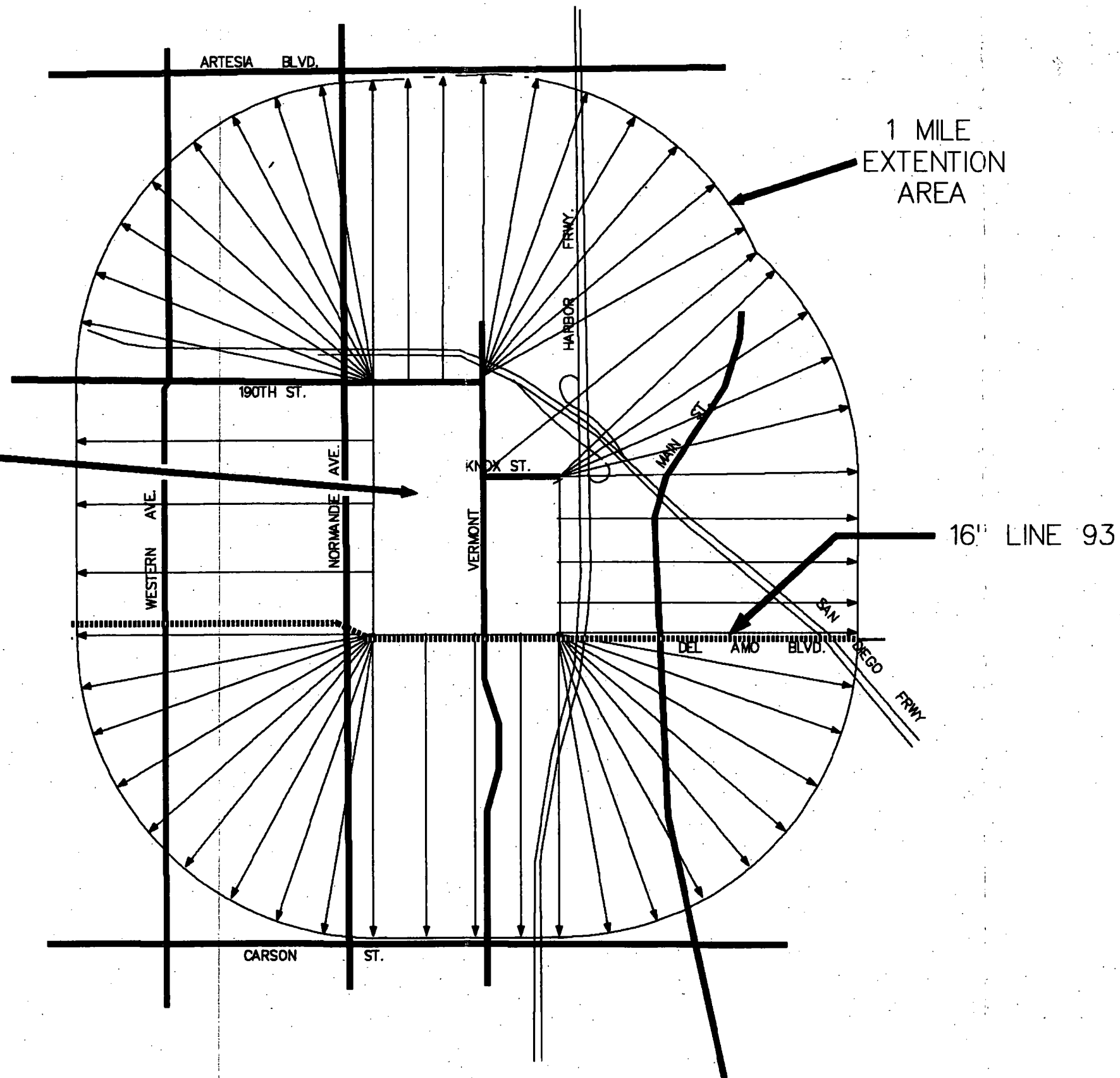
A. Since this is a bi-directional pipeline system with numerous receipt and delivery points, the ability to detect and quantify a leak from a particular segment varies as a function of the receipt and delivery point, pressure, flow rate, etc.
6. Q. Are you aware of any pipeline, owned or operated by other companies, that may have leaked, discharged, or otherwise contributed to soil or groundwater contamination in the vicinity of the Del Amo site. If so, describe fully.

A. Four Corners Pipe Line Company is not aware of any pipeline, owned or operated by other companies, that may have leaked, discharged, or otherwise contributed to soil or groundwater contamination in the vicinity of the Del Amo site.
7. Q. Are you aware of any other companies, other than those identified in this letter, which own or operate pipelines or have owned or operated pipelines in the past in the vicinity of the Del Amo site.

A. Attachment 5 (3 pages) is a copy of the portion of a Western Oil and Gas Association map showing letter codes and approximate locations of other pipelines owned or operated by other companies in the past in the vicinity of the Del Amo site.

Atlantic Richfield Company is the parent company of Four Corners Pipe Line Company. The map dated January, 1978 indicates a pipeline owned by Atlantic Richfield Company. This line, if it operated in the area, may have been operated by Richfield Oil Co., a predecessor in interest to Atlantic Richfield Company. It is believed that this line, if it existed, was abandoned in the 1940's.

EPA DESIGNATED
CONTAMINATION AREA



DWN: RDH CHK: DMF *ok* DATE: 2/13/92



Four Corners Pipe Line Co.
93-B-G-8270

**PARTIALLY SCANNED
OVERSIZE ITEM(S)**

See document # 2307324
for partially scanned image(s).

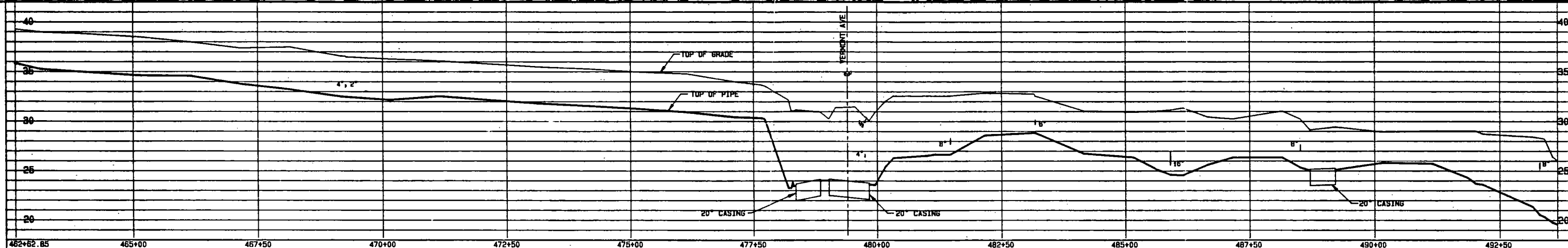
For complete hardcopy version of the oversize document
contact the Region IX Superfund Records Center

AERIAL

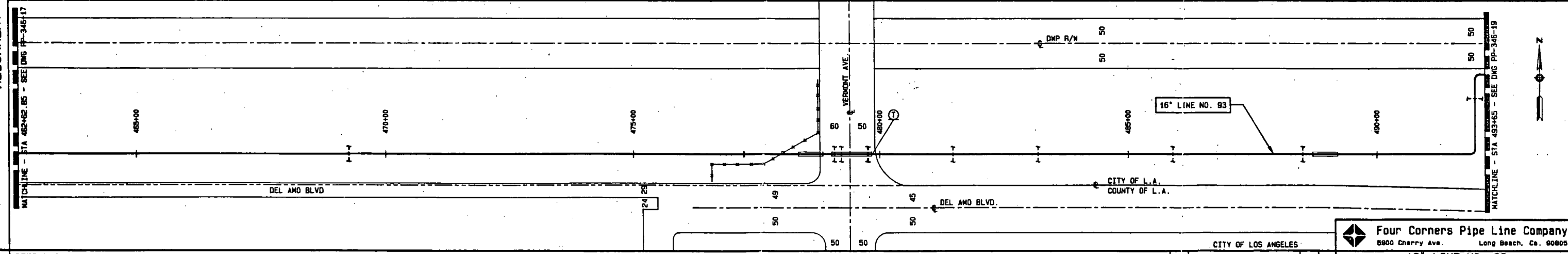
PROFILE

ALIGNMENT

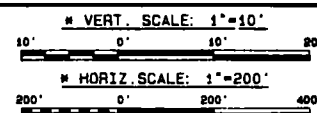
PIPE DATA



462+63 171.3' S/S DWP R/W
 464+16 170.8' S/S DWP R/W
 466+16 171' S/S DWP R/W
 468+16 170.9' S/S DWP R/W
 469+24 8' 4\"/>



REFERENCE											
SHELL ATLAS SHTS 37A, 37B											
482+62.85	493+65	16"	0.281"	API 5LX GR. X52 ERW	SOMASTIC	1958	INT. DES. PRESS.	TEST PRESSURE	TEST MEDIUM	TEST PERIOD	TEST DATE
FROM STATION	TO STATION	O.D.	WALL	GRADE	COATING	DATE INSTALLED	INT. DES. PRESS.	TEST PRESSURE	TEST MEDIUM	TEST PERIOD	TEST DATE



* SCALES NOTED ARE FOR
REDUCED SIZE PRINTS.

SPEX
SERVICE

10101 Blister Avenue, Suite 204
Fountain Valley, CA 92708
(714) 953-8077

Four Corners Pipe Line Company 5900 Cherry Ave. Long Beach, Ca. 90805	
16" LINE NO. 93 CHEVRON EL SEGUNDO REFINERY TO HYNES PUMP STATION PIPELINE ALIGNMENT	
DWP: R.R. CHK: DATE: 12/4/86 AFC:	SCALE: 1"=200' DATE: 12/4/86 PP-346-18

**40 West Cochran, Suite 112
Simi Valley, California 93065
Phone: (805) 527-3300 FAX: (805) 583-1607**

**7171 Bowling Drive, Suite 1010
Sacramento, California 95823
Phone: (916) 427-4500**

Part B – Pipeline Descriptions

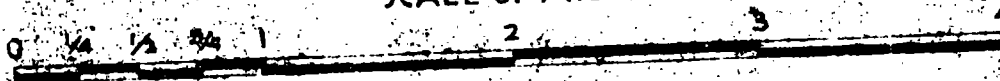
Pipeline Operating Company:	Four Corners Pipe Line Company
CSFM Inspection Unit No.:	1300
Street Address:	5900 Cherry Avenue
City, State, ZI:	Long Beach, CA 90805
Questionnaire Completed By:	David W. Moore
Title:	Manager – P/L Documentation & Training Services
Telephone:	(213) 428-9217
Date:	May 31, 1991

[illegible]

PIPELINE SYSTEMS AND LOCATIONS SHOWN HEREIN
ARE ONLY ROUGH APPROXIMATIONS AND ARE NOT TO
BE CONSIDERED AS ACCURATE OR CURRENT. FOR
SPECIFIC INFORMATION REGARDING ANY SYSTEM
CONTACT THE COMPANY IN QUESTION. NEITHER
WOGA NOR ANY COMPANY SHOWN ON THE MAP ASSUMES
RESPONSIBILITY FOR THE ACCURACY OF DATA
INDICATED.

WESTERN OIL & GAS ASSOCIATION
GREATER LOS ANGELES AREA
OIL HANDLING FACILITY MAP
MAP I

SCALE OF MILES



NOTE: February 25, 1992
This map was prepared many
years ago. It has been
updated periodically by
adding companies. It is
believed that the name
"Richfield Oil Co." was
changed to "Atlantic Refining
Richfield Co." after
Richfield Oil Co. merged
with Atlantic Refining in
1966.

LETTER CODE

- D - DOUGLAS OIL CO.
- H - SIGNAL OIL & GAS CO.
- U - UNION OIL CO. OF CALIF.
- ST - CHEVRON, U.S.A.
- S - SHELL OIL CO.
- M - MOBIL OIL CORP.
- G - GETTY OIL CO.
- T - TEXACO, INC.
- R - ATLANTIC RICHFIELD CO.
- W - GULF OIL CO.
- SP - GOLDEN EAGLE REF. CO. INC.
- SPA - POWERINE OIL CO.
- ED - EDGINGTON OIL REFINERIES, INC.
- SU - SUPERIOR OIL CO.
- E - SO. CALIF. EDISON CO.
- SPP - SOUTHERN PACIFIC PIPE LINES, INC.
- FC - FOUR CORNERS PIPE LINE
- SG - STANDARD GAS CO.

E - CIRCLE IN LINE INDICATES CHANGE IN STATUS - THIS

U-5 U-47

